ELSEVIER

Forest Ecology and Management 179 (2003) 585–587

Forest Ecology and Management

www.elsevier.com/locate/foreco

Contents of *Forest Ecology and Management*, Volume 179

VOLUME 179, ISSUES 1–3 **3 JULY 2003**

Review article

The biology and silviculture of pruning planted eucalypts for clear wood production—a review
K.D. Montagu, D.E. Kearney and R.G.B. Smith (Beecroft, Australia) 1

Regular articles

Comparative analysis of variables associated with germination and seedling establishment for *Prosopis nigra* (Griseb.) Hieron and *Acacia caven* (Mol.) Mol.
P. Pratolongo, R. Quintana, I. Malvárez and M. Cagnoni (Buenos Aires, Argentina) 15

Seasonal gas exchange characteristics of *Schinus terebinthifolius* in a native and disturbed upland community in Everglades National Park, Florida
S.M.L. Ewe (Coral Gables, FL, USA and Fort Pierce, FL, USA) and L. da Silveira Lobo Sternberg (Coral Gables, FL, USA) 27

Spruce budworm defoliation and growth loss in young balsam fir: relationships between volume growth and foliage weight in spaced and unspaced, defoliated and protected stands
H. Piene, D.A. MacLean and M. Landry (Fredericton, Canada) 37

Impact of harvest residues on soil mineral nitrogen dynamics following clearfall harvesting of a hoop pine plantation in subtropical Australia
T.J. Blumfield (Nathan, Australia) and Z.H. Xu (Nathan, Australia and Indooroopilly, Australia) 55

Modeling the spatial and temporal variability in climate and primary productivity across the Luquillo Mountains, Puerto Rico
H. Wang, C.A.S. Hall (Syracuse, NY, USA), F.N. Scatena (Rio Piedras, PR, USA), N. Fetcher (Scranton, PA, USA) and W. Wu (Syracuse, NY, USA) 69

Modelling light penetration edge effects for stream buffer design in mountain ash forest in southeastern Australia
P. Dignan (Heidelberg, Australia) and L. Bren (Creswick, Australia) 95

Edge effects in mixed conifer group selection openings: tree height response to resource gradients
R.A. York, J.J. Battles (Berkeley, CA, USA) and R.C. Heald (Georgetown, CA, USA) 107

Ground dwelling beetles and forest vegetation change over a 17-year-period, in western Oregon, USA
W.H. Heyborne, J.C. Miller (Corvallis, OR, USA) and G.L. Parsons (East Lansing, MI, USA) 123

Seedling growth of three co-occurring *Entandrophragma* species (Meliaceae) under simulated light environments: implications for forest management in central Africa
J.S. Hall (New Haven, CT, USA), V. Medjibe (Bayanga, Central African Republic), G.P. Berlyn and P.M.S. Ashton (New Haven, CT, USA) 135

Influence of forest structure on habitat use by American marten in an industrial forest
D.C. Payer and D.J. Harrison (Orono, ME, USA) 145

Phenological patterns of mature longleaf pine (*Pinus palustris* Miller) under two different soil moisture regimes
M.C.P. Sheffield, J.L. Gagnon, S.B. Jack and D.J. McConville (Newton, GA, USA) 157

Decomposition and nutrient dynamics of green and freshly fallen radiata pine (*Pinus radiata*) needles
G.K. Girisha, L.M. Condron (Canterbury, New Zealand), P.W. Clinton and M.R. Davis (Christchurch, New Zealand) 169

Growth and stem form responses of plantation-grown *Acacia melanoxylon* (R. Br.) to form pruning and nurse-crop thinning
J.L. Medhurst, E.A. Pinkard, C.L. Beadle and D. Worledge (Hobart, Australia) 183

Cogongrass [*Imperata cylindrica* (L.) Beauv.] response to herbicides and disking on a cutover site and in a mid-rotation pine plantation in southern USA
C.L. Ramsey, S. Jose, D.L. Miller (Milton, FL, USA), J. Cox (Raleigh, NC, USA), K.M. Portier (Gainesville, FL, USA), D.G. Shilling (Apopka, FL, USA) and S. Merritt (Milton, FL, USA) 195

doi:10.1016/S0378-1127(03)00201-9

The dynamics of an introduced pathogen in a native Monterey pine (*Pinus radiata*) forest
K. Wikler (Davis, CA, USA), A.J. Storer (Berkeley, CA, USA), W. Newman (Campus Center Seaside, CA, USA), T.R. Gordon (Davis, CA, USA) and D.L. Wood (Berkeley, CA, USA) ... 209
Nest predator use of food plots within a forest matrix: an experiment using artificial nests
L. Mike Conner and M.W. Perkins (Newton, GA, USA) ... 223
Estimating cavity tree abundance by stand age and basal area, Missouri, USA
Z. Fan, D.R. Larsen, S.R. Shifley and F.R. Thompson (Columbia, MO, USA) ... 231
Segregation of *Eucalyptus dunnii* logs using acoustics
R.L. Dickson (Tumut, Australia), C.A. Raymond (Tasmania, Australia), W. Joe (Beecroft, Australia) and C.A. Wilkinson (Tumut, Australia) ... 243
How does residue management impact soil organic matter composition and quality under *Eucalyptus globulus* plantations in southwestern Australia?
N.J. Mathers (Nathan, Australia), D.S. Mendham, A.M. O'Connell, T.S. Grove (Wembley, Australia), Z. Xu (Indooroopilly, Australia and Nathan, Australia) and P.G. Saffigna (Gatton, Australia and Nathan, Australia) ... 253
Additivity in tree biomass components of Pyrenean oak (*Quercus pyrenaica* Willd.)
J.P. Carvalho (Vila Real, Portugal) and B.R. Parresol (Asheville, NC, USA) ... 269
Land use and vegetation fires in Jambi Province, Sumatra, Indonesia
F. Stolle, K.M. Chomitz, E.F. Lambin and T.P. Tomich (Louvain-La-Neuve, Belgium) ... 277
Vegetation and future natural development of plantations with the Black poplar hybrid *Populus×euramericana* Guinier introduced to Central Europe
S. Zerbe (Berlin, Germany) ... 293
Partitioning of nitrate uptake between trees and understory in oak forests
M.O. Olsson and U. Falkengren-Grerup (Lund, Sweden) ... 311
Surface wildfires in central Amazonia: short-term impact on forest structure and carbon loss
T. Haugaasen, J. Barlow and C.A. Peres (Norwich, UK) ... 321
Stand development and fire behavior
E. Bilgili (Trabzon, Turkey) ... 333
The effect of thinning intensity on the below-canopy light environment in a Sitka spruce plantation
S.E. Hale (Midlothian, UK) ... 341
Predicting basal area of Scots pine branches
H. Mäkinen (Vantaa, Finland) and A. Mäkelä (Helsinki, Finland) ... 351
The use of PCR based DNA markers to study the paternity of poplar seedlings
H.E. Tabbener and J.E. Cottrell (Midlothian, UK) ... 363
Differences in drought responses of three contrasting *Eucalyptus microtheca* F. Muell. populations
C. Li (Chengdu, PR China and Helsinki, Finland) and K. Wang (Chengdu, PR China) ... 377
Mycorrhizal status of indigenous trees in dry Afromontane forests of Ethiopia
T. Wubet, I. Kottke (Tübingen, Germany), D. Teketay (Addis Abeba, Ethiopia) and F. Oberwinkler (Tübingen, Germany) ... 387
Resprouting patterns after fire and response to stool cleaning of two coexisting Mediterranean oaks with contrasting leaf habits on two different sites
J.M. Espelta, J. Retana and A. Habrouk (Barcelona, Spain) ... 401
Reduced-impact logging in Indonesian Borneo: some results confirming the need for new silvicultural prescriptions
P. Sist (Montpellier, France), D. Sheil, K. Kartawinata and H. Priyadi (Jakarta, Indonesia) ... 415
Root interactions between young *Eucalyptus deglupta* trees and competitive grass species in contour strips
M. Schaller (Bayreuth, Germany), G. Schroth (Manaus, Brazil), J. Beer and F. Jiménez (Turrialba, Costa Rica) ... 429
Effects of logging and non-native tree proliferation on the birds overwintering in the upland forests of north-western Italy
P. Laiolo, E. Caprio and A. Rolando (Turin, Italy) ... 441
The effect of nitrogen deposition on nitrification, carbon and nitrogen mineralisation and litter C:N ratios in oak (*Quercus robur* L.) forests
K.F. Månsson and U. Falkengren-Grerup (Lund, Sweden) ... 455
Aspen age structure in the northern Yellowstone ecosystem: USA
E.J. Larsen (Stevens Point, WI, USA) and W.J. Ripple (Corvallis, OR, USA) ... 469
Estimating water use by sclerophyllous species under east Mediterranean climate. II. The transpiration of *Quercus calliprinos* Webb. in response to silvicultural treatments
G. Schiller, E.D. Unger, Y. Moshe, S. Cohen and Y. Cohen (Bet Dagan, Israel) ... 483
Differences in elemental composition of silver fir seedlings from four different populations in eastern Poland
T.H. Szymura (Wrocław, Poland) ... 497

Modeling stem taper of three central Oregon species using nonlinear mixed effects models and autoregressive error structures
S.M. Garber and D.A. Maguire (Corvallis, OR, USA) 507
Influence of surrounding vegetation on woodpecker nest tree selection in oak forests of the Upper Midwest, USA
C.L. Adkins Giese and F.J. Cuthbert (St. Paul, MN, USA) 523
Effects of calliandra planting pattern on biomass production and nutrient accumulation in planted fallows of southern Cameroon
C. Nolte, T. Tiki-Manga, S. Badjel-Badjel, J. Gockowski, S. Hauser and S.F. Weise (Yaoundé, Cameroon) 535
Denitrification in effluent-irrigated clay soil under *Eucalyptus globulus* plantation in south-eastern Australia
A.K. Hooda, C.J. Weston (Creswick, Australia) and D. Chen (Parkville, Australia) 547
'Back to nature'—a sustainable future for forestry?
C. Gamborg (Hørsholm, Denmark) and J.B. Larsen (Frederiksberg, Denmark) 559
Using the shelterwood method to mitigate water table rise after forest harvesting
D. Pothier, M. Prévost and I. Auger (Sainte-Foy, Canada) 573

Contents of *Forest Ecology and Management*, Volume 179 585